

PHILIP MORRIS U. S. A.

INTER - OFFICE CORRESPONDENCE

Richmond, Virginia

To: Dr. D. Leyden

Date: February 10, 1992

From: R. Ferguson

Subject: 1992 Plans for Operations Support

OBJECTIVE

This program provides specialized Research and Development technical support as requested by Operations departments to address current business needs of Philip Morris USA.

INTRODUCTION

An unusual aspect of this program is the number of unique and independent issues which are the subject of program activities. For this reason, each separate area will have its own brief plan description. This section is intended only to put the activities attached in the overall context of R&D support to Operations.

Since these activities support programs originating in Leaf, Purchasing, QA, Engineering and Manufacturing, each project has different milestones and some are ongoing support activities.

The list of attached support projects documents the complexity of issues addressed by this program. They range from the quality and availability of leaf tobaccos worldwide, to key aspects of indirect and direct materials, and to consumer acceptability of our products in the marketplace.

SUMMARY TABLE

<u>Program Title</u>	<u>1992 R&D Resources (persons)</u>
Crop Protection Agents	4.0
Kabat Application - Domestic and International	0.5
Entomology	6.25
Tobacco Microbiology	5.0
Tobacco Variety Evaluation	0.4
Reconstituted Facility Support	1.0
Adhesive Specifications	5.0
Flavor Specifications/Revisions	2.5
Flavor Application Studies	0.2
Materials Evaluations	2.5
Customer Complaints/Foreign Matter	0.5
Taste/Odor/Stale-Moisture Loss Study	0.6

R&D Total 28.45

Attachments

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Crop Protection Agents

Program Objective: To insure that tobacco product components and other materials meet regulatory requirements.

ARD Objective: Provide methodology and measurements of crop protection agents (CPA) as needed.

Operational Plan:

- a. Establish necessary existing and new methodology.
 - 1. Establish and validate FTR methodology in the CPA laboratory.
 - 2. Revise and improve FTR methodology
 - 3. Establish methodology for TCLP including appropriate cleanup.
 - 4. Establish methodology for sheet analysis.
 - 5. Develop mass selective detector as primary quantitative and qualitative tool.
 - 6. Seek alternative methodology for improved efficiency and accuracy.
 - 7. Establish methodology for analysis of eight additional CPA's as presently identified by the leaf department.
- b. Provide documentation of methodology sufficient for transfer where necessary.
 - 1. Document revised and improved procedures.
 - 2. Document TCLP procedures necessary for PM samples.
 - 3. Document new methods.
- c. Provide technical support for other PM departments on CPA issues.
 - 1. Assist QA in methodology transfer and analytical problems.
 - 2. Chair R&D-QA committee to assist in resolving CPA issues across these departments.
 - 3. Provide analytical support to other PM departments including Leaf.

Duration of Study: Established in new lab January, '92. All equipment in place and FTR methods in place. FTR methods validated by March, '92. Oriental tobacco survey complete March '92. FTR method revision complete by August, '92. Documentation for established procedures complete by December, '92. Mass spectrometer integration into lab complete by January, '93. One-half new methodology for Leaf targeted CPA's complete by January, '93.

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Estimated Resources: 4 person/years

Contact Persons: ARD (R&D) - R. Davis and B. Handy
R&D - J. Ware
QA - F. Owen
Leaf Dept. - D. Hill

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ENGINEERING STUDIES

METHOPRENE/KABAT

Program Objective: To monitor and improve the uniformity of methoprene application in Kabat-treated domestic and off-shore tobaccos and qualify independent processors' stemmeries.

Operational Plan: Methoprene and OV analyses will be performed on samples taken from hogsheads and at selected points in the Kabat application process lines at domestic and off-shore stemmeries.

Duration of Study: Ongoing

Estimated Resources: 0.5 person years

Contact Persons: ARD - Bill Ryan
Engineering - Eugene Bailey, George Korval

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